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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|----------------------|---------------------|------------------|
| 10/627,520 | 07/25/2003 | . Sameer Bhargava | DDC 0544 PUS | 2903 |
| 22045 | 7590 10/27/2004 | | EXAMINER | |
| BROOKS KUSHMAN P.C. 1000 TOWN CENTER | | | HOANG, JOHNNY H | |
| TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075 | | ART UNIT | PAPER NUMBER | |
| | | | 3747 | |

DATE MAILED: 10/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | |
|---|--|--|--------------------------------|--|--|--|--|
| Office Action Summary | | 10/627,520 | BHARGAVA ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | | Johnny H. Hoang | 3747 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | |
| Status | | | | | | | |
| 2a) | Responsive to communication(s) filed on 25 Ju This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E | action is non-final. ace except for formal matters, pro | | | | | |
| | · | x parte Quayre, 1900 O.D. 11, 40 | 0 0.0. 210. | | | | |
| Dispositi | on of Claims | | | | | | |
| 4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | | | |
| Application Papers | | | | | | | |
| 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 July 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | |
| Priority L | ınder 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| Attachmen | t(s) | | | | | | |
| | e of References Cited (PTO-892) | 4) Interview Summary (| | | | | |
| 3) 🔯 Inforn | e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/30/2003. | Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other: | te atent Application (PTO-152) | | | | |

DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Romzek (US 6,457,461 B1).

Regarding claim 1, the reference of Romzek discloses an EGR and VGT system including the following subject matters:

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determining a condition during engine operation in EGR mode at which an intake manifold temperature is below an intake manifold critical temperature at which condensation occurs in said intake manifold (see abstract, col. 4, lines 12-43);

switching to a boost mode in response to said determining (abstract);

predicting a value of at least one of intake manifold temperature and intake manifold pressure if the engine were operated in EGR mode (Fig. 3, col. 7, line 54 through col. 8, line 10);

calculating an intake manifold critical temperature as a function of said predicting a value (above rejections and col. 5, lines 34-67); and

switching to exhaust gas recirculation mode when said predicted intake manifold temperature in EGR mode exceeds said calculated intake manifold critical temperature (above rejections).

Regarding claims 2-4, as discussed in claim 1.

Regarding claim 5, wherein said table is generated as a function of engine load and engine speed (col. 6, lines 1-35).

Regarding claim 6, as above rejections.

Regarding claim 7, as discussed in claim 1, and further teaches a computer readable storage media (28) (col. 3, lines 10-45).

Regarding claims 8-11, as above discussions.

Regarding claims 12-15, above discussions.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The copies of U.S Patent are provided.

Shao et al (US 6,216,461 B1), Weisman, II et al (US 6,305,167 B1), Romzek et al (US

6,363,922 B1), and Rimnac et al (US 6,691,171 B2).

5. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Johnny H. Hoang whose telephone number is (703) 308-2782. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH

October 20, 2004

Johnny H. Hoang Examiner Art Unit 3747

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Willis R. Wolfe Primary Examiner

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